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(54) Title of the invention: Television broadcast program display device

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As prescribed by Article 65-2-2-4 of the Patent Law, part of Drawings 2 and 3 shall not be included.

## **SPECIFICATION**

### **1. Title of the Invention**

Television broadcast program display device

### **2. Claims**

A television broadcast program display device characterized in that it memorizes a program display signal including the names of broadcast stations and their program times, provides a program output section to output a display signal for

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programs of the present time or later by comparing the aforementioned program time of this memory section and the present time from a timer, and provides a program display set switch which outputs an image receiving signal by switching from the aforementioned program display signal by operation from this program output section.

### **3. Detailed Description of the Invention**

#### **[Industrial Application]**

The present invention concerns a television broadcast program display device for a domestic television receiver which is generally used at home.

#### **[Description of the Prior Art]**

Conventionally, in the case of a television receiver which is generally used at home, as described in Drawing 3 (a to c), the viewer selects a channel on the television receiver 1 by looking at a clock 7 and a television program chart 8 in a newspaper etc.

#### **[Problem(s) to be solved by the Invention]**

Because selection of the channel of a broadcast program in the case of a conventional television receiver had to be carried out by confirming a clock 7 and a television program chart 8 in a newspaper etc., if there was no program chart 8, the problems were that selection had to be made by watching and suitably selecting a channel close to the one desired, or at times there were cases when a program that was really desired to be seen was missed.

The purpose of the present invention is to remove these problems by providing a television broadcast program display device that enables smooth selection of channels and programs to be viewed only by turning on a switch.

#### **[Means for Solving the Problem]**

The present invention is a television broadcast program display device characterized in that it comprises a memory section that memorizes a program display signal including the names of broadcast stations and their program times, provides a program output section to output a display signal for programs of the present time or later by comparing the aforementioned program time of this memory section and the present time from a timer, and provides a program display set switch which outputs an image receiving signal by switching from the aforementioned program display signal by operation from this program output section.

By the present invention, a viewer can read a program that is instantaneously portrayed on a screen without any need or material information medium that is necessary for selecting channels such as a clock or program chart because future programs of broadcasting stations selected by the television receiver itself or by the adapter construction are portrayed on screen.

#### [Examples]

The following explains in detail the present invention by actual example with reference to the Drawings.

Drawing 1 is a block drawing that includes one example of the present invention. A program display signal obtained from a general television receiver 1 is inputted to a broadcast program display processing section 2, and processing such as detection, comparison and memory operation to output a signal required for screen display is executed in the broadcast program display processing section 2 and a screen display output signal is fed to the television receiver 1. The broadcast program display processing section 2 is connected to a program display set switch 6 which can be controlled from outside, and when this switch 6 is turned on, it

operates to display on the screen of the television receiver 1 during the prescribed time. For this purpose, it can be constituted to include a clock (timer) outputting the present time, a memory storing names of broadcast stations and television programs, a comparison circuit discarding television programs before the present time and a control circuit processing the selection of channels etc..

Drawing 2 is an example of a screen display depicting on the television receiver 1 the content that is processed in the program display processing section 2 of Drawing 1. A broadcasting station 3, a program name display 5 after turning on program display set switch 6, and a corresponding time display 4 are portrayed in this example. This portrayed content disappears automatically after a certain time (for example 5 seconds later) and the normal television screen returns.

[Effect of the Invention]

As explained above, adding the television broadcast program display device of the present invention enables smooth selection of channels by instantaneously viewing a schedule of programs that one wants to see by turning on the program display set switch.

#### **4. Brief Description of the Drawings**

Drawing 1 is a block drawing of one example of the broadcast program display device, Drawing 2 is a front view of the example of the broadcast program display device of Drawing 1, and Drawing 3 (a to c) is a configuration diagram of the medium for confirming programs and the television receiver in prior art.

- 1 television receiver
- 2 broadcast program display processor
- 3 broadcasting station name

- 4 program starting time display
- 5 program name display
- 6 program display set switch
- 7 clock
- 8 television program chart

Agent: Shin Uchihara, Lawyer

Drawing 1

Television receiver

Broadcast program display processor

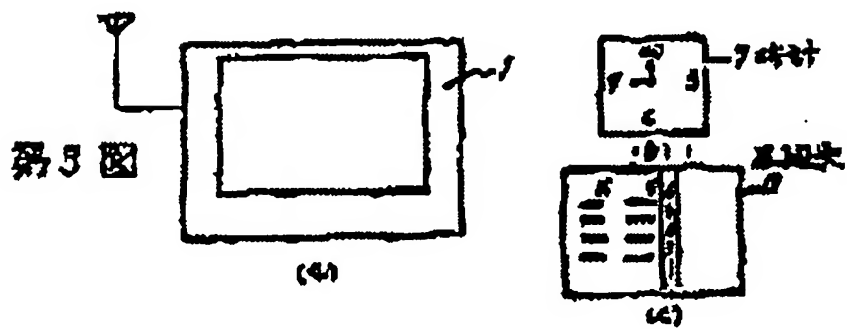
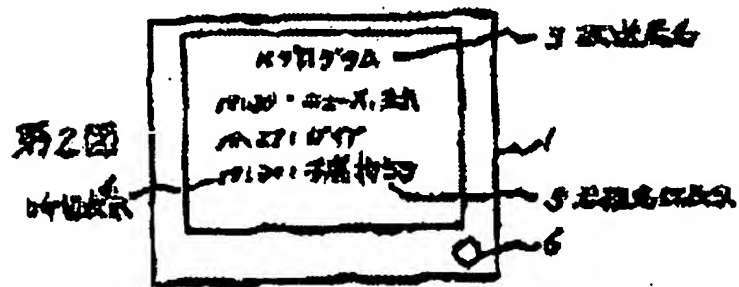
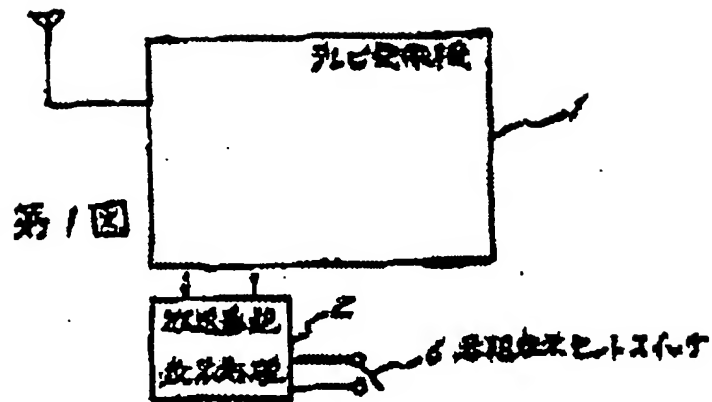
- 6 program display set switch

Drawing 2

- 3 broadcasting station name (K Program)
- 4 program starting time display (19:00; 19:27; 19:30)
- 5 program name display (News; Guide; The Yearling)

Drawing 3

- 7 clock
- 8 program chart



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